

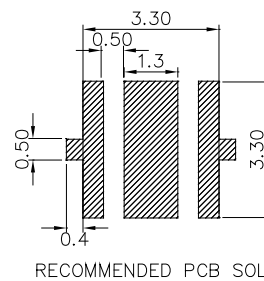
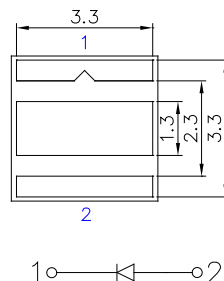
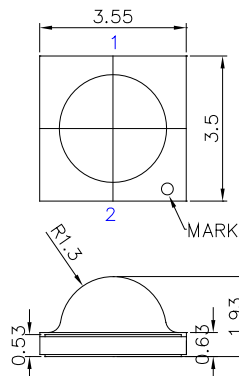
■Features

- RoHS and REACH-compliant
- MSL 6 qualified according to J-STD 020
- Water Clear Type(M/W:Yellow Diffused)

■Applications

- Read lights (car, bus, aircraft)
- Portable (flashlight, bicycle)
- Bollards / Security / Garden
- Traffic signaling / Beacons
- Indoor / Outdoor commercial lights
- Automotive Ext

■Outline Dimension



1 0 2

RECOMMENDED PCB SOLDER PAD

Unit: mm

Tolerance: ± 0.2 mm

unless otherwise noted

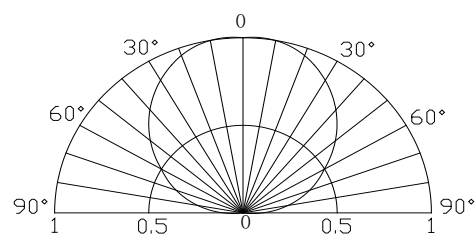
■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value		Unit
		M/W/B/PG	R	
DC Forward Current	I _F	400	400	mA
Pulse Forward Current#	I _{FP}	500	500	mA
Reverse Voltage	V _R	5	5	V
Power Dissipation	P _D	1440	1040	mW
Operating Temperature	T _{opr}	-30 ~ +80		°C
Storage Temperature	T _{stg}	-40 ~ +80		°C
Lead Soldering Temperature	T _{sol}	240°C/5sec		-






#Pulse width Max.10ms Duty ratio max 1/10

■Directivity



■Electrical -Optical Characteristics

(Ta=25°C)

Part Number	Color			V _F (V)			I _R (μA)	Φ _v (LM)			CCT(K)			2θ1/2(deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				I _F =350mA			V _R =5V	I _F =350mA						
OSM53535C1H-350MA	Warm White	M		-	3.1	3.6	10	90	100	-	2700-3000-3300K			120
OSW43535C1H-350MA	Pure White	W		-	3.1	3.6	10	90	100	-	5500-6000-6500K			120
OSB43535C1H-350MA	Blue	B		-	3.1	3.6	10	15	20	-	455	460	465	120
OSG53535C1H-350MA	Pure Green	PG		-	3.1	3.6	10	80	90	-	515	525	530	120
OSR53535C1H-350MA	Red	R		-	2.1	2.6	10	30	40	-	620	625	630	120

*1 Tolerance of measurements of forward voltage is ± 0.1 V

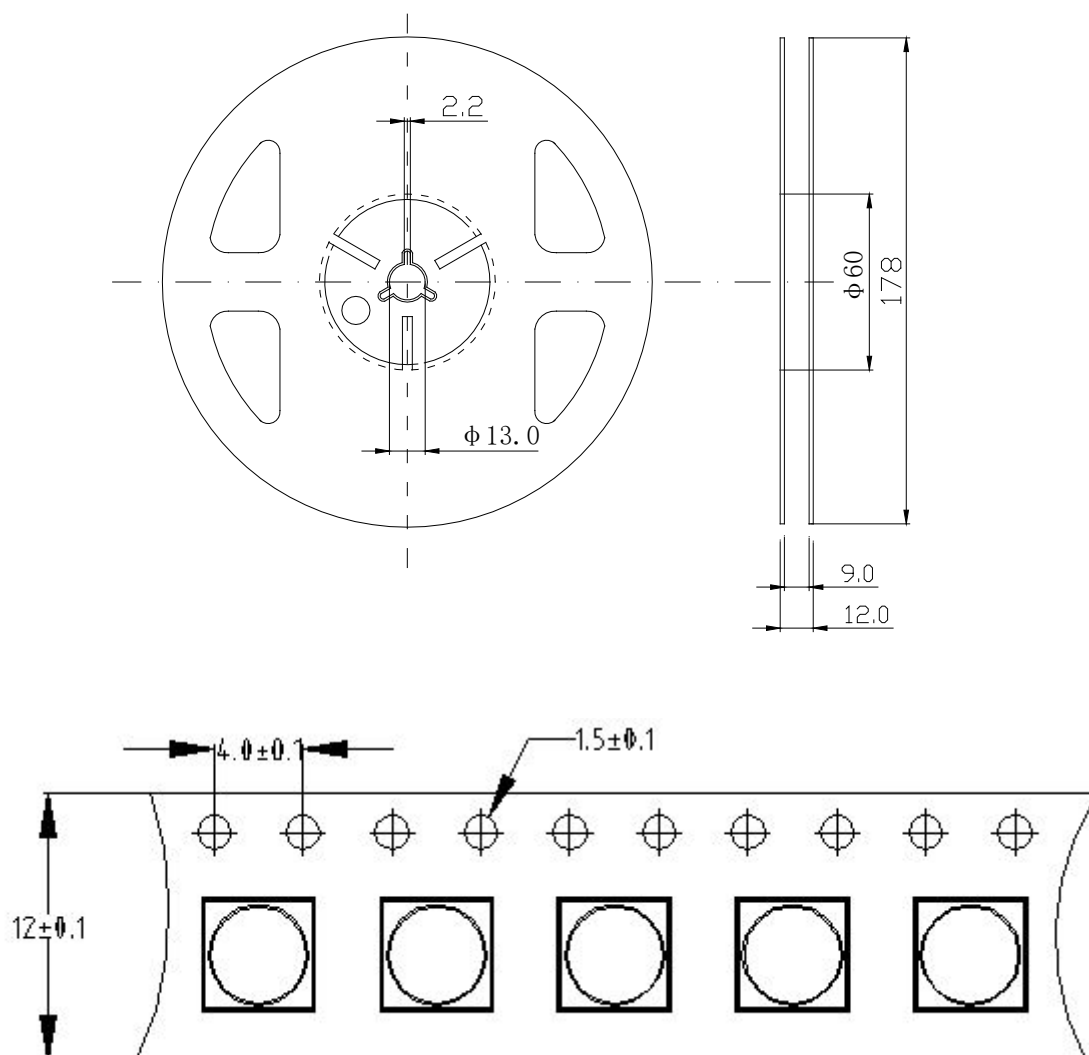
*2 Tolerance of measurements of Luminous Flux is $\pm 15\%$

*3 Tolerance of measurements of dominant wavelength is ± 1 nm

*4 Tolerance of measurements of Color temperature is $\pm 10\%$

Note: Don't drive at rated current more than 5s without heat sink for Xeon 3 emitter series.

PACKAGING DIMINTIONS



Notes:

1. Unit: mm
2. 1000pcs/Reel

■ Soldering Heat Reliability:

- Reflow soldering Profile
- Reflow soldering should not be done more than two times.
- When soldering, do not put stress on the LEDs during heating.
- After soldering, do not warp the circuit board.
- Repairing should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used. It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.

Solder
Average ramp-up rate = 3°C/sec. max.
Preheat temperature: 150°~180°C
Preheat time = 120 sec. max.
Ramp-down rate = 6°C/sec. max.
Peak temperature = 220°C max.
Time within 3°C of actual peak temperature = 25 sec. max.
Duration above 200°C is 40 sec. max.

